

DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

# Basic Imagery Interpretation Report

Wu-wei Copper Smelter China

**Top Secret** 

25X1

OCTUBER 19/1 COPY 117 **PAGES** 



Арр	CENTRAL INTE Directorate		J900010057- CS = 13/000	
INSTALLATION OR ACT	TIVITY NAME		COL	JNTRY
Wu-wei Copper S	Smelter			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX	O. NIETB NO.
48STT520640	38-29-10N 102-09-10E		None	None
MAP REFERENCE AMS. Series 150 (SECRET	D5. Sheet NJ48-5. 1st edit	ion. 1967. Scale 1:25	0,000	
LATEST IMAGERY USE	D	NEGATION DATE (If required)		
		NA		

#### **ABSTRACT**

Wu-wei Copper Smelter includes ore concentration and smelting facilities. This plant produces copper anodes which are then sent to a refinery, probably the nearby Wu-wei Copper Smelter and Refinery, for further processing.

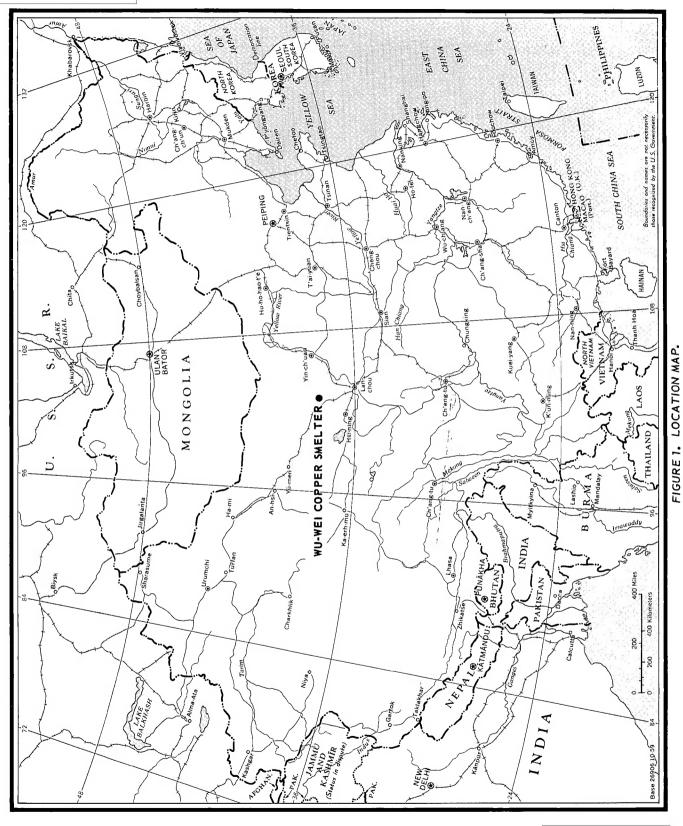
When the plant was first observed on overhead coverage in June 1962, only the smelter and five other buildings were visible due to the obliquity of the photography. The plant appeared complete when it was next seen, in August 1964. No changes have been observed since that time. The smelter has been seen operating intermittently on coverage from June 1965 to June 1971.

This report includes an annotated photograph of the facility and a discussion of the operational status.

-1-

TOP SECRET RUFF

### TOP SECRET RUFF



TOP SECRET RUFF

25X1

Approve	d For Release 2008/10/06 : CIA-RDP79T00909A	000900010057-5
	TOP SECRET RUFF	
		. 1

25X

#### INTRODUCTION

Wu-wei Copper Smelter is located approximately 39 nautical miles (nm) northwest of Wu-wei, and 170 nm northwest of Lan-chou. Other industrial facilities in the area include Wu-wei Copper Smelter and Refinery, 1.5 nm east of this plant, and two power plants in the town of Ho-hsi-pao, about 11.5 nm southwest of the plant (see Figure 1).

Ore is obtained from an open pit mine approximately 0.5 nm west of the plant.

#### BASIC DESCRIPTION

#### Physical Features

The plant occupies an irregularly shaped area approximately 3,700 by 3,300 feet which contains about 189 acres (see Figure 2). It is at the base of foothills of the Tung-ta Mountains. There are no apparent physical security measures. The plant is bordered on one side by the mountains and elsewhere by other buildings, leaving no room for expansion.

The plant is served by road and by a rail spur from the main rail line between Lan-chou and Urumchi.

#### Operational Functions

The major plant facilities are an ore concentrator and a smelter. Ore is brought from the mine by rail, crushed and ground. The ground ore is concentrated to remove impurities, which may include other metals such as lead, zinc, nickel, gold, or silver. The concentrated ore is sintered, roasted, and smelted in a blast furnace to produce copper matte. The copper matte is converted by an induced-air process into blister copper, which is then cast into anodes. Anodes from this smelter are probably refined at the nearby Wu-wei Copper Smelter and Refinery.

There are several unidentified buildings within the plant area which have no apparent relation to the operations of the smelter.

25X1

Approved For Release 2008/10/06	: CIA-RDP79T00909	A000900010057-5

25X1 25X1

### TOP SECRET RUFF

#### Construction and Operational Status

When the plant was first seen on overhead photography in June 1962, only the smelter and five other buildings were visible due to the obliquity of the photography. The plant appeared complete when it was next observed in August 1964. No changes have been observed since that time.

On ten of the 17 photographic coverages from June 1962 to June 1971, smoke from the smelter stack indicated that the plant was operating. The plant did not appear to be operating in June 1962, August 1964, December 1965, August 1966, September 1967, January 1968, and October 1969.

### Key to Annotations (Figure 2)

<u>     Tem</u>	Description	Dimensions (ft)	
1 2 3 4 5 6	Crushing and grinding building Concentration building Concentrate storage building Sintering building Roasting building Blast furnace	425 × 155 140 × 90	

TOP SECRET RUFF

25X1



	TOP SECRET RUFF	T00909A000900010057-5	25X
		·	25 <b>X</b> 1
			•
<b>Л</b> ар		, , ,	
	NJ48-5. 1st edition. 19	967. Scale 1:250.000	*
(SECRET,			25X
Occument			25X
NPIC. Non-F	Ferrous Metals Complex,	China, August 1969	25^
Requirement			
COMIDEY NOO			g ·
COMIREX NO9 Support Number 422953			
Support Number 422953	-		

Approved For Release 2008/10/06 : CIA-RDP79T00909A000900010057-5

# **Top Secret**

# **Top Secret**